

The PublicATI on



Agricultural Technical Institute

Commencement Issue, June, 1977

Students Earn Awards

Student recipients of the 1977 ATI Awards were chosen by an all-school vote conducted this Spring Quarter. Even though there was no formal banquet as there was last year, the awards are no less important.

Robert La Salle of Akron, a Forest Products graduate and editor of the school newspaper, The PublicATI on, was given the honor of being Commencement Student Speaker. It is the highest honor the graduating class awarded.

Lauren Elaine Knowles, a Floriculture Design student from Cleveland Heights, earned the highest point average of any graduating ATI student, thus earning the title of valedictorian.

Students voted to receive the other awards were given plaques and peer recognition when the awards were presented during classes and at curriculum dinners and picnics.

Glenn Franklin of Warren and Sue McConnell of Dennison received the "School Spirit" awards. Both students are graduating from the Floriculture Design curriculum and have shown tremendous enthusiasm and support

for ATI events during the past two years.

Frank Cummings of Willoughby and Beth Hillyer of Uhrichsville, both Landscape students, were selected Male and Female School Athletes.

Each technology's students selected an Outstanding Student. Some technology clubs also chose outstanding members. The following students were elected:

Agricultural Research and Laboratory Science--Outstanding Student, C. Machael Banbury, Glenmont.

Beekeeping -- Outstanding Student, Jeffry W. Gluth, Galien, Mich. Outstanding Member of the Beekeeping Club--Chris Hayes, Cleveland Hts.

Crop Production--Outstanding Student, Mark Steiner, Lebanon.

Dairy Cattle Production and Management--Outstanding Student, Richard, E. Pilati, Minerva. Outstanding Member of the Dairy Club--Ronald W. McCuddy, Windsor.

Floriculture and Greenhouse Management--Outstanding Student, Sue A. McConnell, Dennison.

Forest Products--Outstanding Graduate--Geoffry G. Gonter, Berlin. Outstanding Member of the Wood Club, David W. Follman, Lakewood. Outstanding Wood Student, Robert La Salle, Akron.

Horse Production and Management--Outstanding Student, Randall L. Hinnerman, Carrollton.

Livestock Production and Management--Outstanding Student, Timothy G. Shipley, Newark. Outstanding Member of the Hoof and Hide Club--Bruce G. Davis, Richwood.

Landscape/Nursery Management--Outstanding Student, Jeffrey J. Andrey, North Olmstead. Ruth Burns, Wooster, recipient of the Ohio Nurserymen's Association Scholarship.

Materials Handling--Outstanding Student, John C. Masters, Dundee (first year student).

Soil and Water Management--Outstanding Student, Steven L. Metzger, Shelby. Jeffrey G. Fomenko, Dillonvale, recipient of the Jefferson Soil and Water Conservation District Scholarship.

Turf Management--Outstanding Student, Glenn A. Gentile, Columbia Station. Patrick M. Holt, Orrville, recipient of the Ohio Turfgrass Foundation Scholarship.

"I believe that a leaf of grass is no less than the journey-work of the stars."

--Walt Whitman



DR. JERRY HALTERMAN, left, Director of the Agricultural Technical Institute, awards Lauren Knowles, 1977 valedictorian, her diploma. Lauren, who attained the highest grade point average of any graduate, was among 128 students who received the Associate in Applied Science Degree at ceremonies June 10.

Grads Will Miss . . . Friends

More than anything else at ATI graduates of 1977 are going to miss their friends. After chatting with several grad candidates I expect to see a lot of hugging, tears, and exchanging of addresses as the time comes for this year's graduates to depart and see their fortunes.

Llynda Freeman will miss not only the friendly smiles of ATI people but also her enjoyment of working in the library. Why the library? Llynda explained by saying, "I've gotten to know a lot of people outside my program. (horse)." Will Llynda be glad to leave? "Yes and no." Llynda thoughtfully continued, "Now I can apply what I've learned. Most of all I look forward to coming back and teaching here... someday." Dr. Halterman take note.

Dave Follman (Wood) will miss friends for sure and will definitely enjoy missing 5-7 p.m. labs in Spring Quarter. Without a doubt Dave would do it over again. He described his past

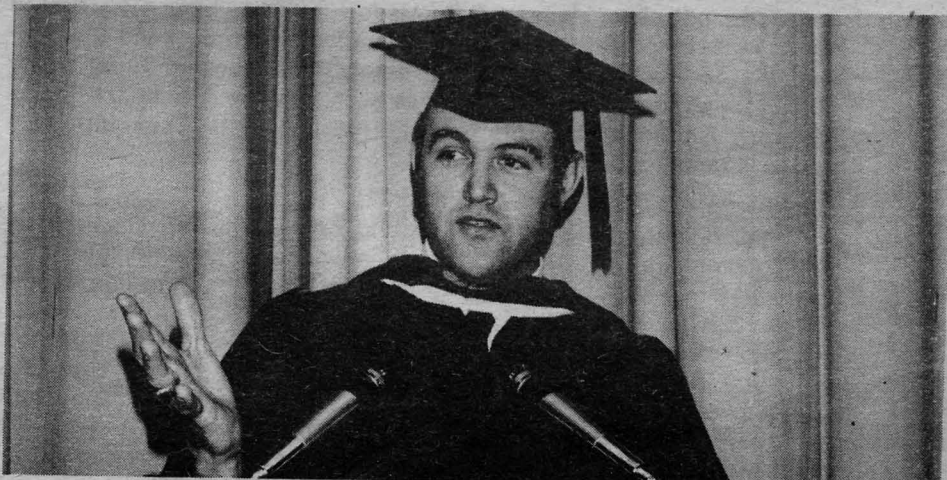
two years at ATI as "Very informative," he further stated, "I learned a lot. More than my previous eight quarters at Bowling Green and Ohio State University main campus. The good things (at ATI) outweigh the bad...by a long shot." If Dave had something he could change at ATI he would "relocate the turkey barn...way far away...especially in the summertime." But more seriously Dave feels, "There needs to be better communication both ways among student, faculty and administration." There was one more thing that Dave wanted to express, "I want to say something about this library. It's very controlled and up-to-date... especially with the periodicals."

"It has been a real experience," is the way that Karen Kline (Reasearch) summarizes her past two years. As

Continued on Page 4 - Awards



ROBERT LA SALLE, an Akron Forest Products graduate, was selected Student Speaker for the 1977 Spring Commencement. ATI students voted to give La Salle the honor. Awards were also given in each technology and for general school achievements.



ERNEST OELKER, dairy curriculum coordinator, spoke at the 1977 Commencement as Faculty Representative. He was selected for the honor by his faculty peers. C. William Swank, Executive Vice President of the Ohio Farm Bureau Federation, was the featured speaker.



BRUCE DAVIS, left, a graduating Livestock student, and Gary Coffing administer an iron shot to a newborn piglet at Apple Creek Farm. An 80 sow farrowing operation is part of the 1500 complex operated by ATI students. There are also a beef feed lot and 800 acres of crops.

After sorting through ATI's history, these happenings stood out as the Big Ten Events of the past two years. The Big Ten Events are listed in chronological order since it would be impossible to place them in order of importance.

Apple Creek Farm Is ATI Operated

1

At the 1974 ATI Commencement, Caleb Williams, student speaker for that first ATI graduating class, cited the need for ATI to acquire a working farm for the students. Caleb, if you're ever back at ATI, be sure to go out to Apple Creek Farm--it's the answer to your insightful commencement comments three years ago.

ATI took over the management of the 1500 acre Apple Creek Farm on July 1, 1975, after several months of negotiations with the Ohio Department of Mental Health and Mental Retardation.

The farm represents a unique relationship between Apple Creek State Institute and ATI, two state-funded institutions. All food produced on the 800 acres used for crops and produced through the swine and beef cattle operations is eaten either by Apple Creek State Institute residents or shipped out to prisons and mental institutions throughout Ohio.

It is the site for the most extensive ATI student Practicum work and over the past two years meat production has greatly increased and crops have been redistributed.

According to Farm Manager Gary Alsdorf, who has been a member of the ATI faculty since it began in 1972 and who has managed the farm since ATI took over, the farm now works with 85 sows in its farrowing operation, as compared to the 35 sows two years ago. The farm's goal is to farrow 200 sows, but this can't be reached until a new farrowing house is constructed.

700 Hogs

About 700 hogs are at the farm and one of the most waited for improvements is a new finishing floor that will take care of the projected 200 sow farrowing operation. With the new floor, the farm can handle about 1200 head per year.

Approximately 600 beef cattle make up Apple Creek's beef feedlot operation, as compared to the 200 that were at the farm two years ago. Ultimately, says Alsdorf, he hopes the farm will put out one thousand head each year. Lowell Crilow and Mark Ladrach supervise the ATI animals. It takes 250 cattle and 300 hogs to feed the Apple Creek residents each year. Those numbers must be considered with the fact that the Apple Creek population has decreased since 1975.

The number of dairy heifers, 63, has not changed since the ATI takeover, and eventually the ATI management intends to get out of the dairy business altogether.

Farm Crops

All but one crop raised at the farm were raised in 1975, although in different proportions. Whereas 325 acres of corn were planted before 1975, there are now 475 acres, with ATI students participating in an especially worthwhile corn practicum course. Cyril Moore is field production supervisor for the farm.

Fifty acres of soybeans, a new crop for Apple Creek, are regularly harvested. Whereas 100 acres of wheat were grown before, now 75 acres are grown. The farm no longer grows barley; there were 50 acres planted before. The amount of oats has increased from 50 acres to 75 acres, as has the hay, which has jumped to 225 acres from the previous 125.

Agronomic Industries and Crop Production students regularly work the farm. Students interested in swine and beef also work there.

Bruce Davis, a 1977 Livestock graduate, has spent perhaps more time at the farm than any other second year student. He developed an interest in swine after he came to ATI and finished his schooling by filling in as swine herdsman after employee Roger Stitzlein left.

Made His Success

Davis, from Richwood, feels the farm is what's made his ATI education successful.

"I could have gone out to Apple Creek and learned everything and not even gone to class," states Davis. "If it weren't for the farm, I don't think they'd get across what farming's all about. I'd tell anyone to come here just because of the farm."

Davis wishes he'd be around for the new hog facility. He also looks forward to when the farm has a new beef feedlot facility.

"There's too much done with bodies. The new facilities would take away unnecessary labor," says Davis.


Improvements, too, are prevalent at Apple Creek. Since 1975 two new silos, one 24 feet by 92 feet, the other 20 feet by 70 feet, have been constructed. A new finishing barn was also built. New machinery includes a Massey-Ferguson 285 tractor with front end loader; a 1486 International tractor with a six bottom 18 inch plow; an International 715 combine; a corn chopper with grass head; a silo blower; a picker/sheller; and a 20 feet wing disc.

An arsonist caused the worst disaster at Apple Creek when he burned down a barn and the 8,000 bales of hay inside on June 13, 1976. Other setbacks include a few minor accidents involving students.

"We've had good success with the swine and beef cattle," says Alsdorf. "Our farm production has been good. My hope for the future is to involve even more students in the farm's operation."

"The frontiers are not east or west, north or south, but wherever a man fronts a fact." --Thoreau

"It is never too late to give up our prejudices." --Thoreau




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Agricultural Technical Institute

Commencement Issue, June, 1977

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2 Willour Offers Better Management Training



ADMINISTERING A PILL with a balling gun is Charlie Covert, a Livestock student from Rio Grande. A cow/calf operation at Willour allows students to oversee all aspects of management for such a facility. There's also a sheep operation at the 100 acre farm.

Before ATI picked up the lease to Willour Farm, Dr. Michael Borger dreaded his Livestock laboratory sessions. They were hard to organize and consisted of running around to area farmers to try to get them to let ATI students work with their animals.

It was a mock in-house set up, with students doing castrating, dehorning, docking and some production work for area farmers.

Now, with the 100 acre Paul Willour farm, jobs like castrating, that were the main experience for students before, are done for Practicum credit. Laboratories can afford to be more specialized and intense and the entire breeding and production process is studied by Livestock students.

The Ohio Agricultural Research and Development Center had used Willour for about thirty years in their sheep and agronomy research. After the research center built a total confinement facility for its sheep, it decided to drop the Willour lease in the summer of 1975.

Knowing that there were no plans for a sheep or cow/calf operation at the new Apple Creek Farm, Dr. Borger and ATI director Dr. Jerry Halterman looked at Willour and decided it would suit the program's needs. The farm is

located less than a mile from ATI.

The first animals purchased were a group of 80 ewes from the OARDC. They were bought at a good price and were prime three and four year olds. Also about that time there were cattle at the OARDC worth about \$400-\$500 each that the scientists wanted to cull out of the research herds because of cross breeding.

Again, ATI lucked out and got top quality animals. During the first year (students started working at the farm during the fall of 1975), six cows were bought in the fall and six in the spring. Then came a donation of 12 heifers from the Schearbrook Land and Livestock Company in Dayton. The herd was increasing, but not fast enough. So in the fall of 1976, several heifers were purchased from the OARDC.

The number of sheep was slowly built up. OARDC rams were used in breeding and the farm got replacements from the original flock.

In 1976-77, Dave Clouser was hired as farm manager; the innovative lambing polyhouse was built; and the goal of creating an entire program of farm management came closer to being realized.



MARK TAYLOR of Zanesville and Jim Larimer of Willowick lead some of the cows to a better pasture site on the 100 acre Willour Farm operated by ATI students. The acquisition of Willour has provided the opportunity for more

intense practical laboratories while at the same time students get to participate in the daily observation and care of sheep and beef.

New Programs Widen Student Opportunities **3**

This year's ATI graduates have seen the advent of three new technologies at ATI. Those graduating from the Soil and Water Management and Beekeeping technologies can be proud to be these two programs' first graduates.

ATI's Soil and Water Management Technology is unique in Ohio. Graduates are qualified to be practical technicians able to work as aides to an engineer or land development contractor in the management and conservation of soil and water resources.

Dr. Thomas Zimmerman was hired in September, 1975 to organize the technology and is able to see his two year efforts realized through this year's graduates.

His program involves the construction and operation of drainage, irrigation and erosion control systems for optimum crop growth. The basic concepts of plant growth and soil science and the complex relationships that exist among soil, water, and plants are areas studied by Soil and Water students. Also emphasized are principles and processes of soil erosion, sedimentation, soil drainage, land use planning and agricultural and community development land use.

The Soil and Water graduates should be able to assist in the supervision, construction and operation of surface and sub-surface drainage systems, sprinkler irrigation systems, erosion control devices such as terraces and waterways and storage ponds and reservoirs.

The Beekeeping program was an answer to Ohio beekeepers who

approached ATI and explained their need for technicians. Also critical to them was the shortage of bees necessary to pollinate crops.

ATI's Beekeeping technology is the first degree program in beekeeping in the United States. It prepares students to be technical workers for such jobs as raising honey bees, pollinating crops, producing and packaging honey, queen rearing, inspecting apiaries and marketing apiary equipment, materials and products.

Beekeeping Technology Coordinator John R. Caulk joined the faculty in September, 1975 and also is viewing his first graduating class during this Commencement. He has helped students work with bees in cooperation with the Ohio Agricultural Research and Development Center and at various ATI sites.

Dr. William Symons heads the newest program, Agricultural Materials Handling. There are no 1977 graduates from this curriculum which was implemented as a new study area in 1976.

Students studying this technology learn the transportation of agricultural materials through processing, production and storage facilities. Biological, chemical, and engineering aspects are considered in the development, installation, maintenance and operation of facilities. Graduates can expect to find employment in farm operations, various parts of the agribusiness community, agricultural construction and grain elevators.

Continued From Page 1 - Awards

well as her friends, Karen will miss "the challenge of not doing my homework...EUCHRE...skipping exams and classes--a talent I'll never be able to use to the fullest."

Jane Raeuchle (Research) will also miss friends and euchre, but will be glad not to have to take care of drunk friends." Looking back Jane sees her ATI years as "overall--very educational ...in every way." Looking ahead Jane is anxious to start in her career. Would she do it again? "Probably," Jane replied, "I'm a sucker for punishment."

Deb Kaczmarek (Horse) will probably miss the chance to have things about horse management explained to her on the job as thoroughly as explained at ATI. she feels ATI certainly provided her with what she needed, but she noted, "I'll be glad no longer have to be getting things in on time," as she pounded her fist on an ag mechanics term paper that is four weeks overdue." Most emphatically though Deb said she will miss her friends.

There may be some wet hankies at commencement. The tears will not be for sorrows past but as a reflection on some happy, friend-filled memories.

Robert La Salle

"The more faithfully you listen to the voice within you, the better you will hear what is sounding outside."

--Dag Hammarskjöld

"It is not enough that you should understand about applied science in order that your work may increase man's blessings. Concern for man himself and his fate must always for the chief interest of all technical endeavors, concern for the great unsolved problems of the organization of labor and the distribution of goods--in order that the creations of our mind shall be a blessing and not a curse to mankind. Never forget this in the midst of your diagrams and equations."

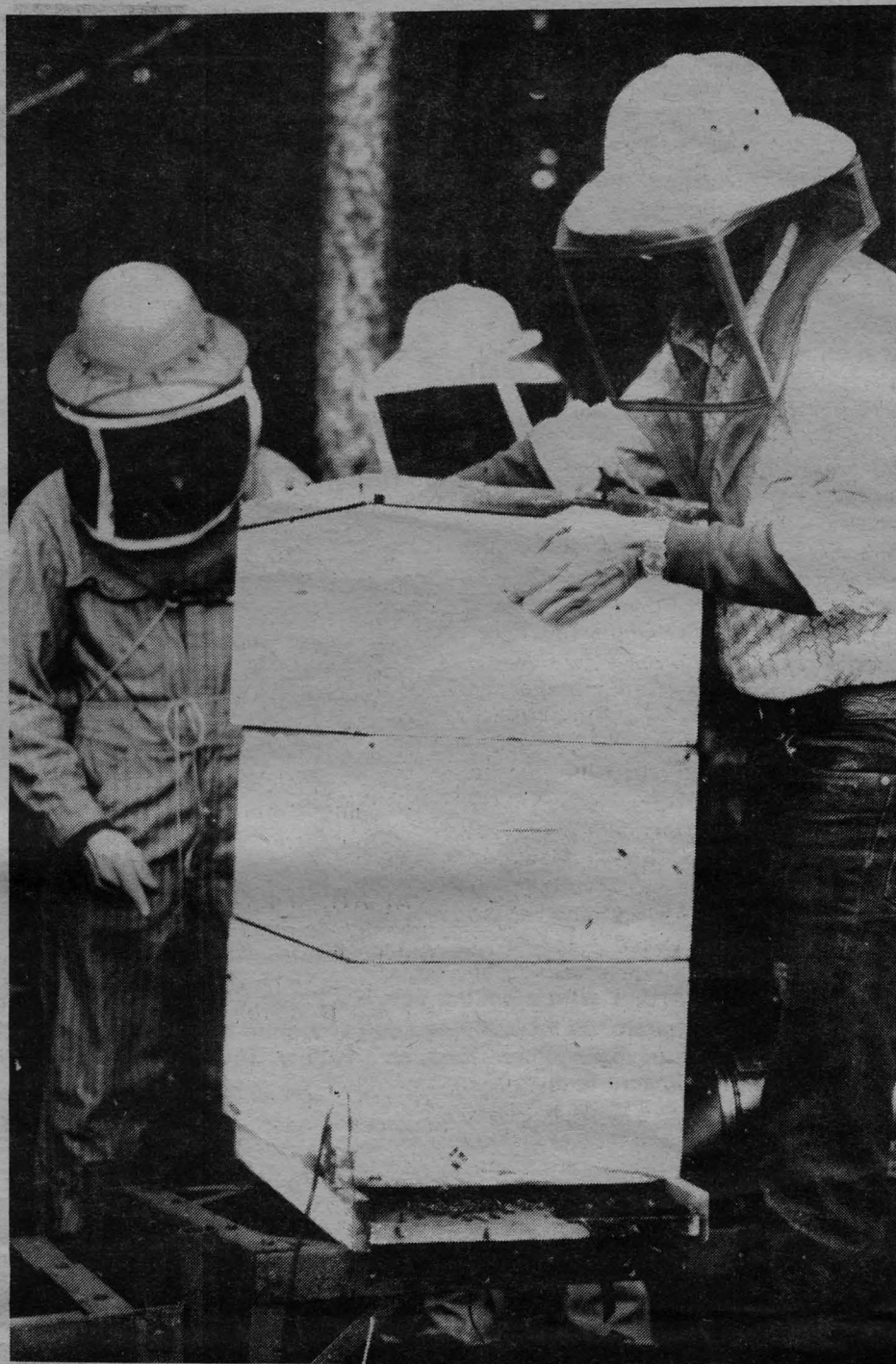
--Albert Einstein

*Diligence
Good Fortune*



GOOD BYE

Charlie, Jodi,
Meegan, Ethan Stock



BEEKEEPING is one of two new programs offered at ATI. Jeff Gluth and Shirley Painter are the first, 1977 graduates of Beekeeping. Soil and Water Management also is graduating its first class.

ATI Staff and Faculty Salute the 1977 Graduates

Mr. John Caulk
Dr. Ron Borton
Marjorie & Reginald Kramer
Ginny Knowlton
Mr. Alan Eicher
Mrs. Beverly Ladd
Mrs. Virginia Eby
Mrs. Judy Taylor
Ms. Mary Ann Rittman
Mr. Robert Arnhalt
Pam Green
Mrs. Sandra Becker
Mrs. Elva Kennedy
Mrs. Yvonne Brown
Mrs. Arlene Ayres
Mrs. Betty Wintersteen
Roger & Vicki Andrews

Mrs. Dianne Stoner
Mrs. Barbara Poole
Mr. Richard Munson
Mr. & Mrs. Tom Zimmerman
Bert & Ernie
Dr. Roger Baur
Mr. Jeffrey Wuthrick
Mr. Linda Barbu
Mrs. Shirley Hall
Mrs. Linda Houston
Dr. Kim Ponto
Ms. Jean Swaino
Mr. James D. Wilson
Mr. Mike Bonadio
Sam Woods
Dr. David Munn
Sandy Thompson

Conservatory Rebuilt By Students 4

Matt Peart has reason to be proud. He will leave behind a beautiful structure that will be enjoyed for many years by many people.

Peart, a 1977 Floriculture and Greenhouse Management graduate, put a lot more effort than was required into the reconstruction of the ATI Conservatory located behind the ATI building. It is the high spot of ATI tours and offers students an aesthetically pleasing environment in which to work.

In 1975 the Joel Black estate in Mansfield offered ATI a deal. If the school would take down and reconstruct the greenhouse, replacing missing glass and metal, the estate would donate the structure to the school.

Ed Kinsey, then the coordinator of the horticultural technologies, Dr. Gary Anderson, coordinator of the floriculture program and Al Zimmerman of agricultural mechanics went to Mansfield, studied the conservatory and decided to take up the offer.

Kinsey was the driving force behind the project. He directed students in taking down the conservatory on weekends. At this point, Matt Peart and Steve Frey started working for Kinsey through practicum and work study. Peart got hooked and ended up working on the project for close to two years.

The conservatory was torn down in the winter quarter of 1975 and from that spring, work has been going on. This spring final touches of painting and welding are being completed.

In the spring of 1975 the erection of the building began. Some classes helped, wood students worked with the doors and the conservatory was an internship station for some students.

From September on, however, it was Peart and Frey working on the

project. Kinsey, who had pioneered the project and done the planning, had left ATI and with him left much of the organization. Peart explains that many parts of the greenhouse marked in certain ways by Kinsey were apparently understandable only to Kinsey, which made the work progress slowly.

By Thanksgiving, the glass was in, with just Peart and Frey feeling the satisfaction of a job well done. In March of 1976 Frey left and the conservatory was not worked on all summer quarter. Last fall a heating system was installed for the front section.

Originally, the front, multi-angled segment was the palm house. The narrow middle section was the orchid house and in the rear was the rectangular greenhouse which housed the rest of Black's foliage. As a wealthy landowner, Black hired others to maintain the conservatory as a splendid place to show plant specimens.

At ATI, the front section of the greenhouse is used for housing large foliage plants. Cuttings are grown in what used to be the orchid house and the rest of the foliage plants are in the rear segment.

The conservatory houses the school's entire foliage plant collection. The plants are used in plant identification classes, disease and insect control classes and in teaching students how to arrange plants for display.

Peart, then, was the only person to experience the tearing down, reconstruction, filling, and finishing of the conservatory. He has put in more hours than anybody else.

Why did he do it?

"Well, we knew if we didn't put it up, it wouldn't get put up," claims Peart. "It was a real challenge for us."



MATT PEART can afford to water some of the plants in the conservatory after working close to two years reconstructing the structure on ATI property. Matt has put in more hours rebuilding the conservatory than any other student. The project was begun two years ago when a family in Mansfield donated the extravagant greenhouse to the school.

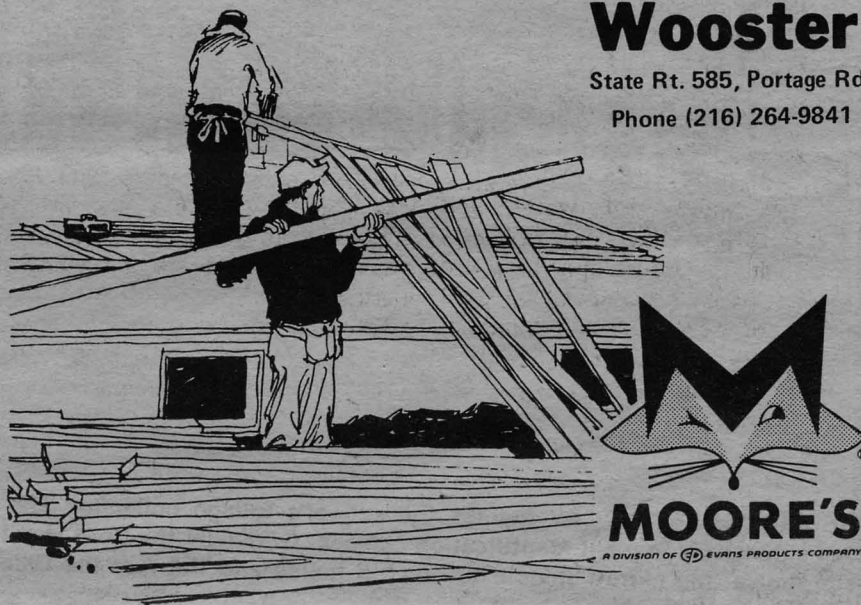
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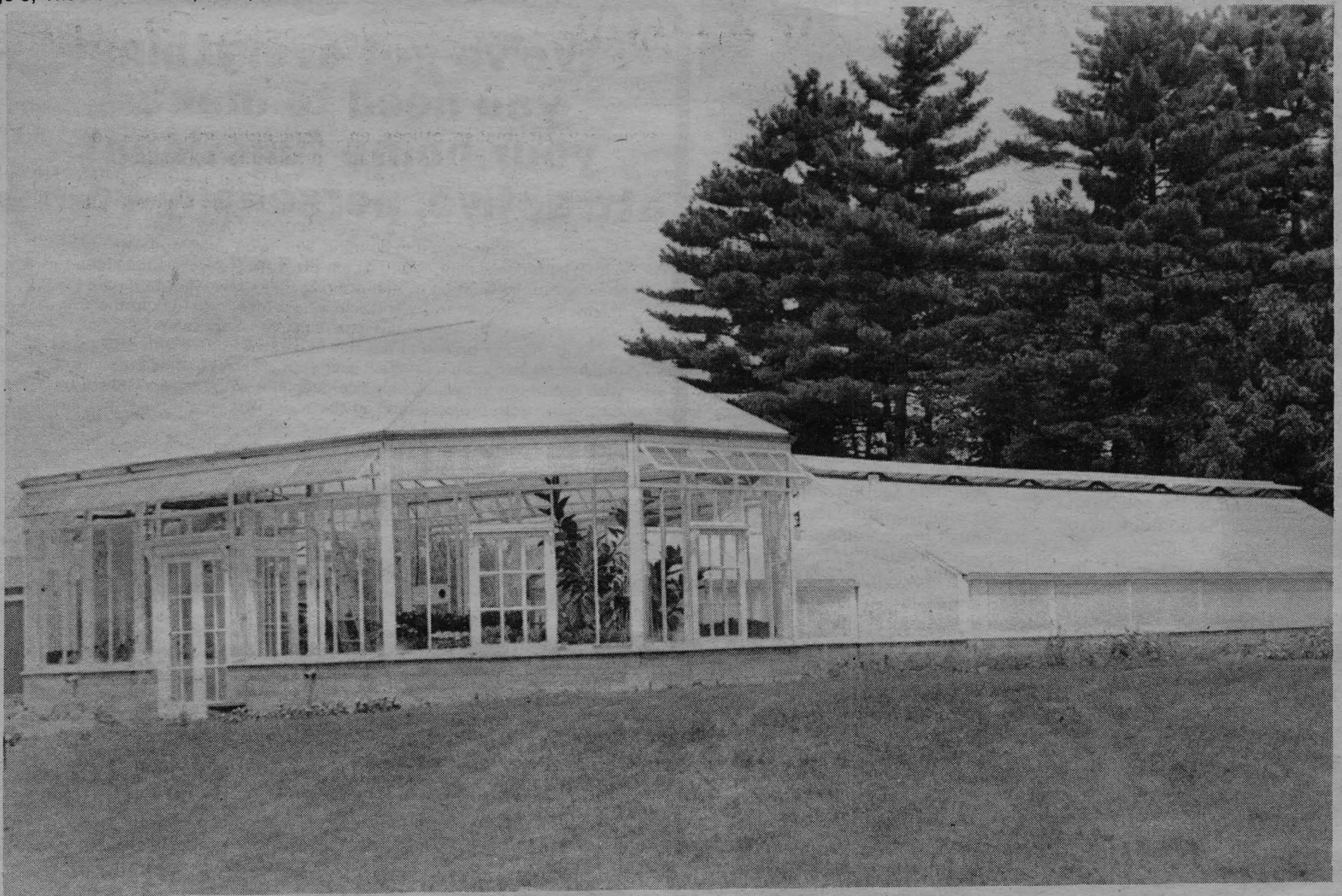
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THE ATI CONSERVATORY houses the school's foliage collection and is used extensively in plant identification classes. Originally the front was the palm house, the narrow middle the orchid house and the rear the foliage

greenhouse. Now the front is used to house large foliage plants, cuttings are grown in what used to be the orchid house and the rest of the foliage plants are in the rear segment.

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5 ATI Horse Judgers U.S. Champs

Winning has been a tradition for ATI judging teams from the very start. The 1975 - 1976 horse team was no exception. Following the example of those before them, they traveled to Texas and came back with the National Championship.

The team consisted of Randy Burrows, Cheryl Hickey, Wendy Lutene, and Sue Shibley. Before leaving, Mr. Duane Thomas, Horse Technology Head, made his farewell predictions saying, "Nobody was ever sharper or more ready to win than Cheryl." True to his expectations, Cheryl Hickey came home the top individual in the nation.

Says Thomas about the win, "It was really gratifying for me to beat Quarter Horse people on their own grounds." Schools in the West are more familiar with Quarter Horses than the Eastern schools. All the horses in the contest were Quarter Horses. Also, as a two-year school ATI had to compete with four-year schools who have coaching continually.

This tradition started the very first year ATI was in existence. Thomas coached all three teams--dairy, horse, and livestock. They made the trip to New York and won it all. Since then ATI has been known as a powerhouse, "the team to beat." For his age, Thomas has had more winning teams than any other coach in the country.

One of the reasons behind the success is that team members have to earn the opportunity to go to competition. Thomas always looks for improvement and doesn't believe in praise. The kids have to work together and be consistent.

In 1975 ATI hosted the National Championship. It was hailed the best ever and set a precedent for future contests.

Thomas' theory is that a good horseman should be able to judge all kinds of horses, getting down to the basics--observation and evaluation. So he called in outside trainers and horses for a mixture of quality and variety; they even had a class of two year old standardbred trotting fillies.

The awards were fantastic. For example, the high point individual took home a \$600 saddle donated by the advisory committee. Fisher Auditorium was the scene for the awards presentation and the stage was decorated by Dr. Gary Anderson of floriculture and company just for the occasion. As usual, ATI won the contest.

Last year's team was average when it began, with little natural talent. They overcame the odds and won because they had something that was much more important--the desire to win.

"Perhaps the most valuable result of all education is the ability to make yourself do the thing you have to do, when it ought to be done, whether you like it or not; it is the first lesson that ought to be learned; and however early a man's training begins, it is probably the last lesson that he learns thoroughly."

--Thomas Huxley

6 Phase II \$4 Million Expansion Project

Groundbreaking ceremonies for Phase II of the Agricultural Technical Institute were conducted November 12, 1976. ATI staff and students, Ohio State University personnel and interested community members witnessed the groundbreaking for the \$4 million building and expansion project. Construction began in February.

The projected occupancy date for the 70,000 square foot structure is June, 1978. It will house an extensive agricultural mechanics workshop, classroom, laboratories, gymnasium, student lounge, dining facilities, and game and music rooms. An extensive ornamental horticultural laboratory is a highlight of the building, with other

features including a bookstore, exercise room, locker facilities, student government and journalism offices, an underground gasoline and flammable storage area, a campus maintenance area, an outdoor multipurpose recreational court and a 300 car parking lot.

An enrollment of about 900 students will be accommodated with this new addition to the present 60,000 square foot building.

Since ATI opened its doors in the fall of 1972 to 192 students, enrollments and faculty/staff appointments have increased dramatically each year. Student enrollments is now about 700, and faculty/staff appointments are close to 100. Phase II represents a vital

operation for ATI's future service to the animal sciences, food industries, agricultural mechanics and landscape ornamental horticulture.

The project is funded as a line item entry through Ohio's capital improvement budget.

Various areas of the present ATI building will be remodeled as Phase II nears completion. The library will be expanded to include one entire wing and the present student lounge will become a Guided Studies facility. A covered glass walkway will connect the two buildings.

Phase III will be the final building for certain specializations needed to complete the planned enrollment of 1100 students.



THE FIRST SHOVEL of dirt at the site for the 70,000 square foot Phase II facility was thrown by Director Dr. Jerry Halterman at ceremonies November 12, 1976. Looking on are Student Senate President and Vice

President Phil Neal of Troy and Flo McCarthy of Saugus, Mass. At right is a member of the OSU Administration.



PHASE II of ATI will accommodate about 900 students and will feature an ornamental horticulture laboratory, gymnasium and multi-purpose recreational court. The

building will be attached to the present ATI main building by an overhead glass walkway.



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NACTA

HIS

Activities Programming 7 Increases Greatly

Last year (1975-76) represented the first real student activities programming effort at ATI. The year's activities included square dances, rock dances and four intramural sports--football, volleyball, basketball, and softball. Thus a foundation was laid.

This year's (1976-77) program, built on that foundation, has been greatly expanded and improved. Major changes have resulted from the reorganization of the Student Senate through its constitution and an increase in its membership.

The school now has a weekly coffee house featuring live entertainment from ATI and the local community, a weekly film program, arts and crafts, cultural events, a running program of small games tourneys (cards, checkers, chess, 8-ball, ping pong, and foosball) as well as recreational programs that run all year long and include everything from pumpkin carving and snow sculpture to swim meets, horseshoes and arm wrestling.

The entertainment program has also been expanded to feature more rock dances, square dances, talent shows and a Gong Show. Intramurals have improved and offerings in that area have nearly quadrupled. In the fall there are football, soccer and bowling. In the winter students play volleyball, basketball, indoor tennis and bowling. In the spring, there are softball, volleyball, soccer and horseshoes.

Varsity sports have also been introduced for the first time at ATI with a successful varsity golf program. Plans are being made for men's and women's varsity basketball, cross country and baseball for next year.

Student organizations also flourished under this new system, growing from eleven clubs in 1975-76 to 36 clubs this year.

The response of this reconstructed activities program has been encouraging. Student participation increased from less than 1,000 students last year to more than 5,000 total participation this year.

The students are the key reason for this increase. Their ideas and enthusiasm made such a program possible. The graduating seniors have witnessed the change and worked hard for two years to make our program what it is. They should be proud of their efforts and they will be remembered as innovators and leaders. They should leave the school with the satisfaction of a good education and a feeling of accomplishment because of their admirable efforts at making ATI a better place for future students to enjoy.

Alan Eicher, Activities Coordinator

"If you have built castles in the air, your work need not be lost; that is where they should be. Now put the foundations under them."

--Thoreau

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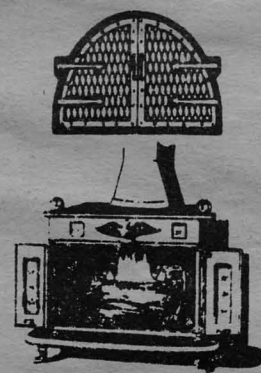
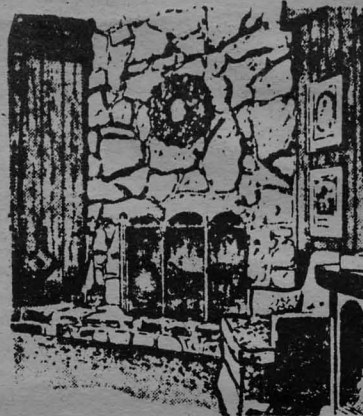
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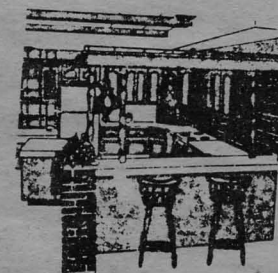
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Lambing Polyhouse Success

8

The PublicATion, June, 1977, Page 11

"Necessity is the mother of invention," and from the need for a better lambing facility for the Livestock students evolved a unique lambing polyhouse located on the Willour Farm.

ATI students had been lambing in the bottom of the old barn at Willour. It had to be cleaned by hand, was damp and drafty and contributed to the incidence of pneumonia. In response to the need for a better, less crowded location, technology coordinator Dr. Michael Borger developed the idea for the 77 by 23 feet structure.

The facility was built with metal hoops and sheets of plastic from a prefabricated greenhouse construction kit. The cost, including ventilation and a wooden base, was about \$8000. The polyhouse was set up for the winter lambing period.

The polyhouse is well ventilated, cheap, portable, and can be mechanically cleaned. The ventilation system includes three fans located at the ends of the structure, a main thermostat to regulate fans, and an overhead plastic tube that keeps air circulating throughout the polyhouse.

The real test for the polyhouse will come this summer, when Dr. Borger feels it may get too hot inside. The outside plastic has been sprayed and whitewashed. The purchase of two cooling units is planned.

Student Managers

Students involved with the lambing project were second year Livestock

students who took a sheep management course and first year students gaining practicum credit. According to Dr. Borger, the eight second year students managed the entire operation and acted as advisors to the first year students. Workers included Chuch Covert, Mike Smith, Steve Freymuth, Kathy Lantz, Mike Dorn, Jim Larimer and Jerry McCarty.

The students lambled 52 ewes in February and lost only three lambs that were born alive, thanks to the students' devotion to the project and the controlled environment. No cases of pneumonia occurred. Most of the ewes had twins, while one ewe produced eight lambs, another five and several sets of triplets were born.

With the number of multiple births, those lambs unable to be fed by ewes were nourished from a lamb bar constructed by students. Although many producers would prefer not to have more than two lambs per ewe, it was relatively simple to rig up an automatic nursing unit for the bonus lambs.

Says Dr. Borger, "Several ewes in our flock have had more than eight lambs in one year. For the average ewe this would be eight years' work. The seven years' savings of hay and medical supplies is surely worth training the extra lambs to suck an artificial nurser."

Lamb Nurseries

The students routinely took all but two lambs off a ewe at birth and

started them on nursers with little difficulty. Lambs wet with afterbirth would suck, but those left on the ewe for a day or more were reluctant. Dr. Borger feels that in the future his operation may be more concerned with a ewe's birth potential rather than the rearing potential.

The second year managers planned and managed the lambing operation. They supervised shearing, worming, foot trimming, ordering feed, setting up the facilities for lambing and rearing orphans. First year students checked ewes every two hours - day and night - during lambing. Two of the managing students were on call each week to assist the first year students if problems arose during lambing. They also helped the other first year workers to eat tag, dock, castrate, and give Bo Se shots. All students were responsible for keeping records in order and ample supplies available. They learned a lot about practical aspects of breeding, selecting, health, nutrition, record keeping, and the management of a sheep enterprise.

Hormone control at breeding time is also important to the production system. Also, the ATI ewes are mated with Finn-Rambouillet rams and the Finn blood helps increase the production level. The ewes are bred in two groups of 50 so there are three lamb crops each year.

Dr. Borger says the ewe hormonal control increased the lamb crop from Ohio's average one lamb per ewe to

Continued on Page 12 - Polyhouse

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Continued from Page 11 - Polyhouse

2.1 lambs per ewe in a treatment group of ten ewes this past fall at ATI. The 350 percent fall crop (21 lambs from 6 ewes lambing) is the best so far. A control group which was given the "textbook treatment" says Dr. Borger, didn't work out well. It produced only a 27 percent crop.

New Methods

"By involving the students with recently researched techniques, we hope they will be motivated to stay abreast of new methods after leaving ATI," explains Dr. Borger, "and they hopefully will be able to evaluate the adaptability of these methods to their operation. The key to their success depends on their continued improvement in efficiency."

Another innovation used by the sheep students as a result of the lambing polyhouse was a ewe feeding system without hay. A special pelleted complete ewe ration containing 40 percent corn cobs was fed from two weeks prior to lambing until the lambs were weaned. This was necessary in order to simplify and reduce the labor of feeding as well as save space in the environmentally controlled facility. Nine foot deep pens running the length of the building allowed twelve

square feet per ewe and just enough fenceline bunk space. The bulk involved in hay handling wasted valuable space (one side of the unit should hold the lambs from one lambing while 50 ewes about to lamb are housed on the opposite side).

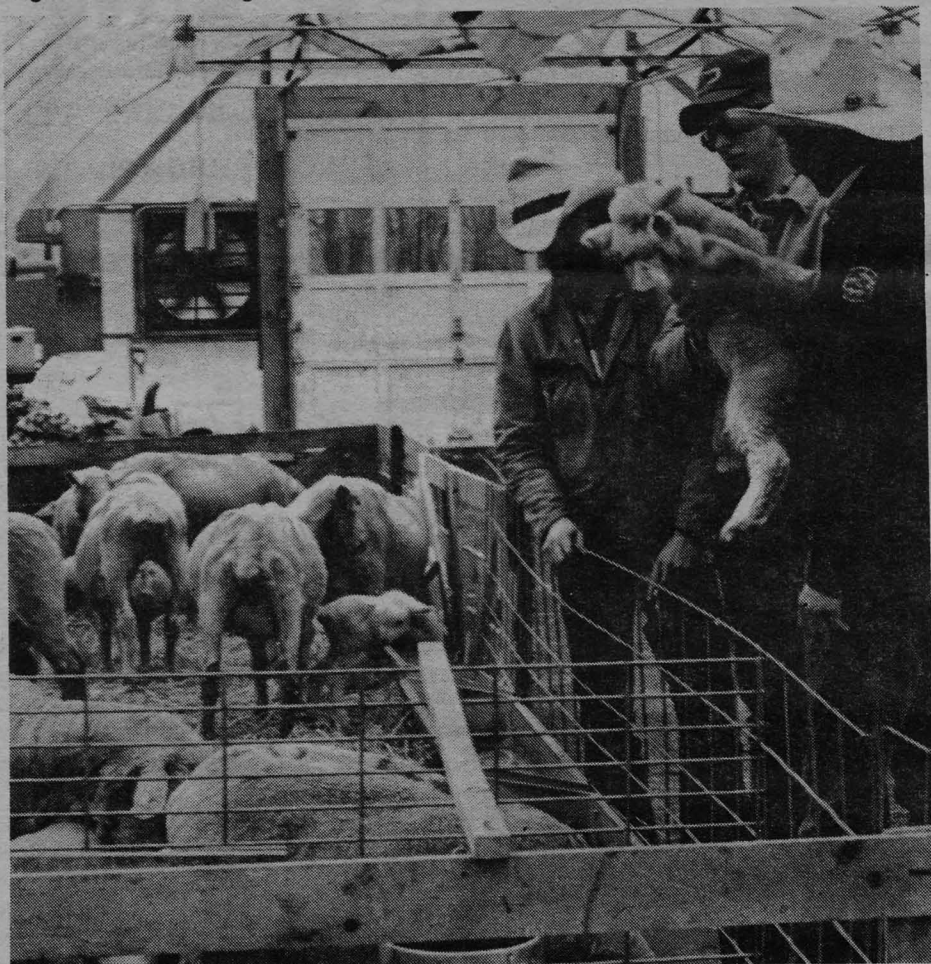
According to Dr. Borger, the pelleted ration was about \$10 a ton more expensive than a typical hay and grain ration, but it allows feeding entirely from the five foot alley into fenceline bunks. He also said that due to the hay savings, it allow the stocking of 23 percent more ewes on the round bales and pasture production of the farm's grassland.

Dr. Borger stresses that his operation is not experimentation but the use of techniques already researched at experimental stations throughout the country. The polyhouse idea has been used in the British Isles, but only as a plastic overhead shelter for ewes.

About 90 percent of the students who enter the Livestock program are from farms, which Dr. Borger feels helps them achieve during their two year education. Of the 85 students in Livestock, all but two are residents of Ohio and about 13 of them have decided to focus their study on sheep production. A lot of livestock students studying beef production will also run sheep with beef when they leave school, says Dr. Borger.



LAMBS EAGERLY suck at the lamb bar constructed by students in the ATI lambing polyhouse. The school's lamb crops are particularly healthy and free from the danger of pneumonia because of the new polyhouse and innovative feeding techniques.



Students Jim Larimer of Willowick; Mark Taylor of Zanesville; Charlie Covert of Rio Grande; and Bruce Smith of Pickerton look over one of the new lambs during February, 1977's lambing period. Curved metal ribs covered by sheets of heavy polyurethane and a wooden base make up the 77 by 23 feet polyhouse.

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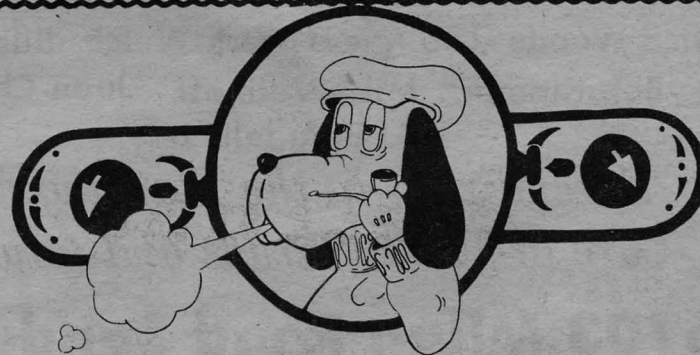
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9 Floral and Bridal Show Annual Student Challenge

Floriculture and Greenhouse students have a special responsibility at ATI. Each year they must try to top the year before when they produce the annual ATI Floral and Bridal Show. It's a challenge to the second year retail/design students who get graded on the show that is presented to over 1,000 persons.

On March 3, 1976 this year's graduates watched from the wings. Their second-year cohorts had the headaches and deadlines, supported by the grower students who provided much of the plant materials used in the show.

For that 1976 presentation, entitled "With This Ring...", 28 second year students produced an informal garden setting and more formal indoor set. Unusual bouquets and floral touches on the gowns and tuxes showed off the students' creativity. There was an all-foliage bouquet and another with tropical flowers and foliage.

Knowing that in 1977 it would be their turn, students watched closely and listened, both dreading and anxiously waiting for their turn.

When it was "their turn," the 1977 graduates managed to produce the biggest-ever show. Over 1,200 people showed up at Fisher Auditorium February 28 to see "White Lace and Promises."

1977 Show

This fourth show featured a Garden Wedding and Church Wedding. There was a banking of plants in front of the organ, which included hyacinths, mums, azaleas and a variety of coleus which shaded from white into rose and wine. Tucked in the corner were branches with clusters of orchids to simulate an orchid tree.

Dr. Gary Anderson and Mary Ann Rittman oversaw the preparations for the presentation. Now it was their turn to watch from the wings as the students modeled the gowns and tuxes, the narration provided by Ruth Cooper, Ashland bridal consultant; Tony Mantos, Canton tuxedo businessman; and Dick Benton, Akron floral commentator.

The Garden Wedding setting included two fountains which were edged with tulips, mums, cyclamen and hyacinths in shades of yellow, red and purple. Pedestal baskets in the back held Wedgewood Dutch iris, yellow snapdragons and daffodils with assorted foliage. In the foreground the setting was flanked by two rosebud topiary trees with wrought iron bases.

Flowers on the rear of hats and dresses created an unusual effect while walking down the aisle, and purse corsages were featured.

Throughout the show, the design

students exhibited flowers in the bouquet, fan, parasol and basket. Clusters of blossoms were attached to the hair, headpiece, and various parts of the dress. In addition to the traditional body flower placement, flowers were used trailing down with streamers at the back bodice. The boutonnieres complemented the women's flowers.

Unusual Design

Some of the more unusual floral designs included one made for a lamb that was featured as part of a Garden Wedding. The lamb rode in a small red wagon pulled by four year old Ethan Stock, son of Mr. Charles Stock, economics faculty member at ATI. Ethan managed to steal the show with his uninhibited charm.

The wagon pulled by Ethan was decorated with a roping of smilax and large Dutch iris, yellow acacia, yellow freesia and Gala sweetheart roses, designed by Gloria Hines.

Other special features included a Bo-Peep bridal gown with removable jacket worn by Jalayne Hanenkratt. Ribbon in pastel shades of yellow, pink and blue along with lace trimmed the jacket and hem of the skirt. A bow of illusion was tied under her chin and she carried a staff covered in blue satin and trimmed with sweetheart roses, daisies and freesia. A cluster of flowers was also on her hat.

Hanging Baskets

The Church Wedding's most impressive floral element was two large hanging baskets filled with calla lilies, yellow snapdragons and pink carnations. The lilies and carnations were repeated in the altar arrangement. Clusters of chrysanthemums, Dutch iris and freesia were featured with pink, lavender and white plants lining the altar railing.

An unusual touch for the second bride of this setting was a gown worn by student Sara Schrock which featured a four yard train accented with roses and smilax and carried by two young train bearers, Adam and Paul Borger, sons of Dr. Michael Borger, coordinator of the Livestock technology.

After the show the models and their floral creations were viewed by the audience in the auditorium lobby. The lobby was decorated with a trellis built by the students that was partially covered by a colorful paper rainbow that trailed beyond the trellis into a mass of 100 potted tulips, mums, cineraria, hyacinths and azaleas.

Student co-chairpersons for the event were Glenn Franklin and Jalayne Hanenkratt.



KATHY LEUTENBERG, a Floriculture graduate from University Heights, was one of the models in the 1977 Floral and Bridal Show. Each year retail design students must produce the attraction, which is considered an entertaining community event. Students are graded on their contributions.

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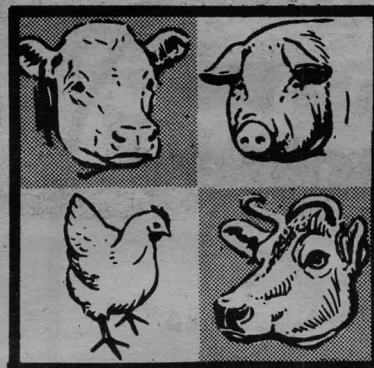
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10

Varsity Golf

In the spring of 1977 ATI entered the world of varsity sports with a golf team. Twenty-five students signed for the sport and eight students qualified for the team. They are Ray Freas, Barry Tucker, Dale Reash, John Majernik, Rick Brogan, Eric Case, Denny Jeursivich, Jeff Moots, and Russ Vance. Of these eight golfers, five earned the first ATI Varsity Letters in ATI history. They are Ray Freas, Barry Tucker, Dale Reash, John Majernik, and Rich Brogan.

The golf team competed against well-established and well-coached veteran teams, yet they still ended their first year of competition with a 21 win 16 loss record! Included in their schedule was the State Regional Campus Championship Tournament. The team ended the two-day, 36-hole tourney in fifth place out of 13 teams. Quite impressive season for any team.

Three of the star lettermen are 1977 graduates. They are "The Turf Trio" of Dale Reash, Barry Tucker and John Majernik. Dale consistently came through with great scores in the No. 1 or No. 2 position in every match. Winning the match medalist trophy for best score in the Ironwood Golf Tourney was the highpoint of Barry's golf record. As No. 4 or No. 5 position on the team, John always added a great score that helped the team to a winning season. These three men were the backbone of the team. Their leadership and skills made ATI a recognized competitor in varsity golf.

The team is now an important part of ATI history--representing the first varsity sport, the first five lettermen to graduate for ATI, and the first winning season for a varsity sport. With the development of the golf team came increased school spirit, positive publicity for the school, and what we all hope will be a winning tradition in varsity sports for ATI.

"Ideals are like stars; you will not succeed in touching them with your hands. But like the seafaring man on the desert of waters, you choose them as your guides, and following them you will reach your destiny."

--Carl Schurz



ATI's Varsity Golf Team, enjoyed its first season this year. It is the first intercollegiate sport of any kind for ATI. Team members include: front row [left to right]. Danny Juersivich, Alan Eicher [Golf Coach and Student

Activities Coordinator], and Eric Case. Back row: Rich Brogan, Ray Freas, John Majernik, Barry Tucker and Dale Reash.

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